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| UTILITY |
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| PATENT APPLICATION |
| TRANSMITTAL |

Attorney Docket No. 647P004 First Inventor Bruce A Bishon Membrane Devices Using Reaction Bonded Monolith Supports

| (Only for new nonprovisional | applications under 37 CFR 1.53(b)) | Expres | s Mail Label No. | ER 2478 | 0321 | .8 US |
|--|--|---------------------------------------|---|-----------------------------------|---------------|----------------------------|
| APPLICAT | ON ELEMENTS | AD | | ssistant Comm | | er for Patents n |
| See MPEP chapter 600 concer | ming utility patent application content | s | | ashington, Do | | |
| 1. Submit an original and a du | | 7. [| CD-ROM or CD-R Computer Prograr | m (Appendix) | | \ |
| 2. X Applicant claims sm See 37 CFR 1.27. | all entity status. | 8. N | ucleotide and/or Amino f applicable, all necessa | Acid Sequen | œ Sut | mission |
| 3. X Specification (preferred arrangement s | [Total Pages 26] | a. | Computer Read | | RF) | |
| - Descriptive title o | f the invention | b. | Specification Sequence | ce Listing on: | | |
| - Cross Reference - Statement Regard | to Related Applications ding Fed sponsored R & D | | i. 🗌 CD-ROM | 1 or CD-R (2 o | opies) | ; or |
| - Reference to seq | uence listing, a table, | | i i. 🔲 paper | | | |
| or a computer pro - Background of th | ogram listing appendix | C. | Statements veri | fying identity | of abov | ve copies |
| - Brief Summary o | f the Invention | | ACCOMPANYING | APPLICA | TION | PARTS |
| - Brief Description - Detailed Descript | of the Drawings (if filed) | 9. | Assignment Pap | | | |
| - Claim(s) | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 37 CFR 3.73(b) | | | Power of |
| - Abstract of the D | isclosure | 10. | (When there is a | | لــا | Attomey |
| 4 X Drawing(s) (35 U.S | S.C. 113) [Total Sheets 3 |] 11 | · | | t (if ap | plicable) Copies of IDS |
| 5. Oath or Declaration | [Total Pages |] 12 | Information Disc Statement (IDS) | | | Citations |
| a. Newly execut | ed (original or copy) | 13 | | | | |
| Conv from a r | prior application (37 CFR 1.63 (d)) on/divisional with Box 18 completed) | 14 | X Return Receipt | Postcard (MF cifically itemiz | PEP 50 ed) |)3) |
| i DELETI | ON OF INVENTOR(S) | 15 | Certified Copy (if foreign priority | of Priority Doc ty is claimed) | ument | t(s) |
| Signed state | ement attached deleting inventor(s) e prior application, see 37 CFR | 16 | ☐ Nonpublication | Request unde | er 35 L | J.S.C. 122 |
| 1.63(d)(2) a | | 1,0 | (b)(2)(B)(i). App | | tach fo | orm PTO/SB/35 |
| A Frankism Date 6 | Sheet. See 37 CFR 1.76 | 1,- | or its equivalen | ((. | | |
| 1 '' | | 17 | | | | |
| 18. If a CONTINUING APPLIC | CATION, check appropriate box, and | supply the n | equisite information belo | ow and in a pi | relimin | ary amenoment, |
| or in an Application Data She | et under 37 CFR 1.76: Divisional Continuation-in-part (| CIPI | of prior application No.: | 1 | | |
| Continuation | Examiner | J , | Group Art Unit: | | | |
| Prior application information: For CONTINUATION OR DIVISION | | f the prior as | olication, from which an | oath or declara | tion is | supplied under |
| | the disclosure of the accompanying con relied upon when a portion has been inac | | | | | a by reference. |
| The incorporation can only be | 19. CORRESPO | NDENCE A | DDRESS | | | |
| Customer Number or Bar Co | | | or X | Correspond | dence ac | ddress below |
| Name | Kevin S. Lemack | | | | | |
| | Nields & Lemack | | | | | |
| 444 | | Cuito | 7 | | | |
| Address | 176 E. Main Street - | State | | Zip C | ode | 01.581 |
| City | Westboro | Telephon | 110 | _Ω Fa | x | 508-898-2020 |
| Country | U.S.A. | | 1,00 0,0 101 | | | |
| Name (Print/Type) | Kevin S, Lemack | F | Registration No. (Atto | mey/Agent) | 32 | ,579 |
| Signature | W.W | | | Date | 10/ | 14/03 |

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PTO/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0651-0032

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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

| - | Examiner |
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| | - Art Unit |

385.00

| Complete if Known | | | | | | |
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| Application Number | | | | | | |
| Filing Dat | | | | | | |
| First Named Inventor | Bruce A. Bishop | | | | | |
| Examiner Name | | • | | | | |
| Art Unit | | | | | | |
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| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | |
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| Deposit Account: | Large E | Entity | <u>Şmall</u> | Entity | | |
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| Account . 14-0930 | 1051 | 130 | 2051 | | Surcharge - late filing fee or oath | Fee Paid |
| Number Deposit N. 1.1. 9 T | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or | |
| Account Nields & Lemack | 1002 | | | | cover sheet | |
| The Director is authorized to: (check all that apply) | 1053 | 130 | 1053 | | Non-English specification | |
| Charge fee(s) indicated below X Credit any overpayments | 1812 | | 1812 | | For filing a request for ex parte reexamination | |
| Charge any additional fee(s) or any underpayment of fee(s) | 1804 | 920* | 1804 | 920° | Requesting publication of SIR prior to Examiner action | |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | 1805 | 1,840° | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| | 1251 | 110 | 2251 | 55 | Extension for reply within first month |]]] |
| FEE CALCULATION | 1252 | 420 | 2252 | 210 | Extension for reply within second month | |
| 1. BASIC FILING FEE Large Entity Small Entity | 1253 | 950 | 2253 | 475 | Extension for reply within third month | |
| Fee Fee Fee Fee Description Fee Paid | 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month | |
| Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee | 1255 | 2.010 | 2255 | 1.005 | Extension for reply within fifth month | |
| . 303 | 1401 | 330 | 2401 | 165 | Notice of Appeal | - |
| | 1402 | 330 | 2402 | | Filing a brief in support of an appeal | |
| | 1403 | 290 | 2403 | | Request for oral hearing | |
| 1004 770 2004 385 Reissue filing fee | | 1,510 | 1451 | | Petition to institute a public use proceeding | |
| 1005 160 2005 80 Provisional filing fee | 1452 | 110 | 2452 | | Petition to revive - unavoidable | |
| SUBTOTAL (1) (\$) 385.00 | | 1.330 | 2453 | | | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | | 1,330 | 2501 | | Petition to revive - unintentional | |
| Fee from Extra Claims below Fee Paid | 1501 | 480 | 2502 | | i Utility issue fee (or reissue) Design issue fee | |
| Total Claims 12 -20** = 0 x 9 = 0 | 1503 | 640 | 2503 | | Plant issue fee | |
| Independent Claims 2 -3** = 0 x 43 = 0 | 1460 | 130 | 1460 | | Petitions to the Commissioner | |
| Multiple Dependent [145] ≠ 0 | 1807 | 50 | 180 | | Processing fee under 37 CFR 1.17(q) | |
| Large Entity Small Entity | 1806 | 180 | 1806 | | Submission of Information Disclosure Stmt | |
| Fee Fee Fee Fee Fee Description Code (\$) | . 8021 | 40. | 802 | | Recording each patent assignment per property (times number of properties) | |
| 1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3 | 1809 | 770 | 2809 | 9 385 | 5 Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1203 290 2203 145 Multiple dependent claim, if not paid | 1810 | 770 | 2810 | U 30: | 5 For each additional invention to be | |
| 1204 86 2204 43 ** Reissue independent claims | 1810 | ,,, | 2011 | | examined (37 CFR 1.129(b)) | |
| over original patent | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |
| SUBTOTAL (2) (\$) 0 | Other | fee (sp | pecify) _ | | | <u></u> |
| **or number previously paid, if greater; For Reissues, see above | *Red | uced by | / Basic | Filing F | ee Paid SUBTOTAL (3) (\$) | |
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| SUBMITTED BY | | | | (Complete (if applicable)) | | | |
|-------------------|-----------------|-----------------------------------|--------|----------------------------|---------------|--|--|
| Name (Print/Type) | Kevin S, Lemack | Registration No. (Attorney/Agent) | 32,579 | Telephone | 508-898-1818 | | |
| Signature | led . | | | Date | Oct. 14, 2003 | | |

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